Worksheet 5. Application Summary

	but for methyl bromide. Therefore, this worksheet cannot be claimed as CBI.									
1. Consortium Name:			Michigan Cucurbit Growers Michigan, USA Cucurbits including: watermelon, cucumber, summer squash, winter squash							
2. Location: 3. Crop:										
		4.								
5.	Acres Treated Bromide	d with Methy	yl 2007	547	Acres					
6.	•	•	ested for additional d to develop effect		_		a capsici. Michigan State l	Jniversity		
	has an active	research p	rogram, and is mal	king progress ir	n disease	manage	ement.			
	2006_	60,970	lbs.	Area Treat	ed	569	Acres			
	2007	58,625	lbs.	Area Treat	ed	547	Acres			
	2008	58,625	lbs.	Area Treat	ed	547	Acres			

Place an "X" in the column(s) labeled "Not Technically Feasible" and/or "Not Economically Feasible" where appropriate. Use the "Reasons" column to describe why the potential alternative is not feasible.

	Not	Not			
Potential Alternatives	Technically	Economically	Reasons		
	Feasible	Feasible			
			Efficacy unproven or inconsistent, plant back restriction too		
1,3-Dichloropropene, Chloropicrin	Х		long.		
1,3-D, Chloropicrin, Pebulate	x		Not effective		
			Efficacy unproven or inconsistent, plant back restriction too		
1,3-D, Metam Sodium	Х		long.		
Basamid	х		Not effective		
Basamid, Solarization	x		Not effective. Climate in Michigan is too cold for solarization.		
			Efficacy unproven or inconsistent, plant back restriction too		
Metam Sodium	X		long.		
			Efficacy unproven or inconsistent, plant back restriction too		
Metam Sodium, Crop Rotation	X		long.		
Methyl lodide	х		Not registered in USA. Efficacy unproven or inconsistent		
Propargyl Bromide	x		Not registered in USA.		
Biofumigation	X		Efficacy is not proven, requires solarization		
Solarization	Х		Climate in Michigan is too cold for solarization.		
			Climate in Michigan is too cold for solarization. Documented		
Solarization, Fungicides	X		fungicide resistance.		
Steam	х		Not technically feasible for large scale agriculture.		
Biological Control	X		Efficacy is not proven.		

over Crops, Mulching	X	Not effective, already used in commercial production.		
rop Residue, Compost	x	Not tested against P. capsici, and efficacy can vary regionally		
rop Rotation, Fallow	x	Not effective, pathogens long-lived, already used in commercial production.		
indophytes	×	Efficacy is not proven		
looding, Water Management	×	Flooding is not feasible, trickle and raised beds are used, but frequent heavy rains favor disease.		
Seneral IPM	×	Utilized by growers, but is not adequate for disease control		
Grafting, Resistant Rootstock,	x	Resistant rootstock has not been identified. Would not be effective against root rot.		
Plant Breeding	x	Resistant germplasm has not been identified		
Organic Amendments, Compost	x	Not tested against P. capsici.		
Planting Time	x	Not effective, P. capsici is a problem year-round.		
Plowing and Tillage	х	Not tested against P. capsici.		
Resistant Varieties	x	Resistant varieties have not been identified.		
Soilless Culture	х	Volcanic ash, rockwool are not viable alternatives for large-scale production in Michigan USA.		
Substrates, Plug Plants	х	Primary pathogens are not disseminated on seed or transplants.		

EPA Form # 7620-18a